

René Marois, Ph.D.

Position: Professor of Psychology
Chair, Department of Psychology

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Appointments

- Chair, Psychology Dept, Vanderbilt Univ. June 2014 -
- Professor, Psychology Dept. Vanderbilt Univ. Fall 2012 -
- Associate Professor, Psychology Dept Vanderbilt Univ. Spring '06 - Spring '12
- Assistant Professor, Psychology Dept. Vanderbilt Univ. Fall 1999 - Fall 2005
- Postdoctoral Fellow, NMR Center, Yale Univ. Sch. Med. Spring '97 - Spring '99

Degrees Earned

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|--|-------|--------------|------|
| • Yale University, New Haven, CT, | Ph.D. | Neuroscience | 1996 |
| • Dalhousie University, Halifax, Canada, | M.Sc. | Psychology | 1989 |
| • McGill University, Montreal, Canada, | B.Sc. | Biology | 1986 |

Honors, Awards and fellowships

- Clifford T. Morgan Best Article Award from the Psychonomic Society, 2018
- Fellow, American Psychological Sciences Society, 2016
- Best research poster award, 2014, Object Perception, visual Attention, and visual Memory (OPAM) annual conference, Long Beach, CA. With co-authors Benjamin Tamber-Rosenau and Anat Fintzi.
- Terry Anders Memorial Lecture by an outstanding alumnus, Department of Psychology and Neuroscience, Dalhousie University, 2014.

- Division of Experimental Psychology New Investigator Award in Experimental Psychology: Learning, Memory, and Cognition to trainee Daryl Fougne for Fougne & Marois' 2011 JEP:LMC article.
- Member, MacArthur Foundation Law & Neuroscience project, 2008-2010
- Chancellor's Award for Research 2005
- Jeffrey Nordhaus Award for excellence in undergraduate teaching 2004
- John F. Kennedy Center investigator 2000 - present
- Fonds FCAR (Quebec) Postgraduate Scholarship Fall 1991-Summer 1992
- NSERC (Canada) Postgraduate Scholarship Fall 1989-Summer 1991
- Dalhousie Fellowship Fall 1986-Summer 1988

Professional Memberships

- Association for Psychological Science
- Society for Neuroscience
- Cognitive Neuroscience Society
- Social and Affective Neurosciences Society
- Psychonomic Society
- Association for the Scientific Study for Consciousness
- International Brain Research Organization
- Organization for Human Brain Mapping

Invited Presentations/Participant

- Invited Presentation, Smokies Cognition and Neuroscience symposium, September 2018 (Declined).
- Invited Presentation, University School of Nashville, Nashville, TN, November 2017
- Invited Talk, Laboratoire Psychologie & Perception, University Paris Descartes, Paris, France, March 2017
- Invited participant, Control Processes conference, San Diego, November 2016
- Invited presentation, Umea University, Umea, Sweden, September 2016
- Invited talk, Department of Psychology, Yale University, October 2015
- Invited talk, Department of Mathematics, Vanderbilt University, September 2015
- Invited symposium at the Association for Scientific Study for Consciousness Annual Meeting, Paris, France, July 2015
- Vanderbilt University School of Medicine, Health Sciences Education Grand Rounds, March 2015
- Dalhousie University Terry Anders Lecture, September 2014
- Utrecht-Vanderbilt Joint Symposium in Cognitive Neuroscience, June 2014
- Southeastern Workers in Memory, Invited Speaker, Nashville TN, March 2014
- Psychology & Neuroscience Colloquium, Duke University, Durham, NC, December 2013
- SFN Annual Convention, Symposium Presentation, San Diego, CA, November 2013
- 25th Attention & Performance Symposium, Presentation, Montreal, CA, July 2013

- APA Annual Convention, Symposium Presentation, Hawaii, HA, July 2013
- Neurology Grand Rounds, Vanderbilt Medical Center, March 2013
- Georgetown University, Dept of Psychology, Washington, DC, February 2013
- Kennedy Center, Vanderbilt University, Nashville, TN February 2013
- Duke Institute of Brain Sciences, Durham, NC, January 2013
- NAS NAKFI Digital World/Informed Brain Conference, Irvine, CA, November 2012
- Slide Session Chair, Society for Neuroscience annual meeting October 2012
- MacArthur Neurolaw Research Project, Boston, MA, September 2012
- Portland Workshop on Working Memory, Portland Oregon, August 2012
- Institute for Intelligent Systems, University of Memphis, February 2012
- Kickoff speaker, University School of Nashville, Evening Classes Program, Jan 2011
- Invited Speaker, Macquarie Center for Cognitive Science, Macquarie University, Sydney, Australia, December 2010
- Keynote Speaker, Center for Perceptual and Cognitive Neurosciences Annual Workshop, Department of Psychology, University of Queensland, Brisbane, Australia, December 2010
- Invited Speaker, Rovereto Attention Workshop, Rovereto, Italy, October 2009
- Invited Speaker, Symposium on Visual Short-Term Memory and Attention, International Congress of Psychology, Berlin, Germany, July 2008
- Invited Speaker, Symposium on the Neural Basis of Visual Short-Term Memory, Cognitive Neuroscience Society, San Francisco, CA, April 2008
- Invited Participant, MacArthur Foundation Law & Neuroscience project, Vanderbilt University. February 2008
- Invited Speaker, Nashville Inn of Court, November 2007
- Slide Session Chair, Society for Neuroscience annual meeting October 2007
- Invited Participant, MacArthur Foundation Law & Neuroscience project, University California, Santa Barbara. September 2007
- Invited Speaker, Introduction to fMRI: Basics, Research Design and Analysis. Vanderbilt Kennedy Center, Vanderbilt University, Nashville, TN. August 2007
- Academy Colloquium on “Blinks of the mind: New insights in temporal attention and consciousness” Royal Netherlands Academy of Arts & Sciences, August 2007
- Brain & Cognition Colloquium, University of Illinois, Urbana-Champaign, November 2006
- Slide Session Chair, Society for Neuroscience annual meeting October 2006
- Perceptual Expertise Network, McGill Univ., Montréal, Canada October 2005
- Yale University Dept. of Psychology-MR Imaging Research Center, New Haven, CT, September 2005
- Montreal Neurological Institute, McGill University, Montréal, Canada, June 2005
- Dept of Psychology, University of Montréal, Montréal, Canada, October 2004
- Invited speaker, Dual-Task Performance Conference, Ohlstadt, Germany, February 26-29, 2004
- Center for the Study of Brain, Mind & Behavior, Princeton University, Princeton, N.J., March 2003
- Vanderbilt University Institute of Imaging Science, February 2003
- 28th Interdisciplinary Conference, Jackson Hole, WY, February 2003
- Invited participant, 20th International Symposium on Attention & Performance,

- Erice, Sicily. July 2002
- Dept of Neurosciences, Brown University, Providence, RI. November 2001
 - Alan Baddeley Colloquium, MRC Cognition & Brain Sciences Unit, Cambridge, UK. June 2001
 - Psychology Dept Colloquium, Chinese University of Hong Kong, Hong Kong. May 2001
 - Functional Imaging of Human Neural Development Meeting. New Orleans, March 13-15, 2001
 - Selected Slide Presentation, Human Brain Mapping Conference, Dusseldorf Germany, June 1999
 - Larval Biology Meeting, Harbor Branch Oceanographic Institution, Fort Pierce, FL August 1995

Teaching Experience

Course #	Course Title
PSY 285	Brain & Consciousness
HONS 183	Brain & Consciousness
PSY201	Neuroscience
NURO330	Cognitive Neuroscience
PSY316	Brain Imaging Methods
PSY358	Seminar in Neuroscience (<i>co-ordinator</i>)
PSY285	Neural Basis of Learning & Memory
PSY 344	Neurobiology of Attention

Ad-hoc Reviewer

Journals

- Archives of General Psychiatry
- Canadian Journal of Experimental Psychology
- Cerebral Cortex
- Cognition
- Cognitive and Affective Behavioral Neuroscience
- Cognitive Psychology
- Current Biology
- Experimental Brain Research
- Journal of Cognitive Neuroscience
- Journal of Neuroscience
- Journal of Experimental Psychology: General
- Journal of Experimental Psychology: Human Perception & Performance
- Nature
- Nature Neuroscience
- Neuroimage
- Neuron
- Perception & Psychophysics
- Public Library of Science (PLOS)

- Proceedings of the National Academy of Sciences
- Psychological Science
- Quarterly Journal of Experimental Psychology
- Trends in Cognitive Sciences
- Vision Research

Granting agencies

- National Science Foundation (NSF)
- NIH B/Start Applications
- Human Frontier Science Program Organization
- Spencer Foundation
- Alzheimer's Association.

Extra-mural services

- F12A Fellowship Review Panel member, 2009-2010
- NIH Special Emphasis Panel/Scientific Review Panel member 2012
- Invitation to serve on National Science Foundation (NSF)'s Graduate Research Fellowship Program (GRFP) panel review, 2016.

Research Grants

- Sponsor: Vanderbilt University central Discovery Grant Program

Title: A Psychometric Approach to Legal Decision-Making

Award Period: July 2016 - June 2018

Direct Costs: \$ 54,600

Role: Principal Co-Investigator. Ed Cheng (Vanderbilt Law School), co-PI.

- Title: Core Grant for Vision Research

Agency: NIH/NEI

ID Number: 5P30EY008126-22

Project Dates: 05/01/09 - 04/30/14

Role: Image Processing Module Director

- Title: Research Network on Law and Neuroscience

Agency: MacArthur Foundation

ID Number: 11-98158-000-USP

Total Support: \$4851,747

Project Dates: 07/01/11-/06/30/14 (in no cost extension)

Role: Co-Investigator

- Sponsor: MacArthur foundation

Title: Brain Activity during Punishment decisions: Two next steps.

Award Period: November 2009 – June 2010

Direct Costs: \$ 49, 967, Indirect Costs: \$ 7,495

Role: Co-Investigator, Owen Jones (Vanderbilt Law School), PI.

- Sponsor: MacArthur foundation
Title: Juror Decisions about Mental States
Award Period: January 2009 – June 2010
Direct Costs: \$ 8,600, Indirect Costs: \$ 1,290
Role: Principal Investigator, Owen Jones (Vanderbilt Law School), co-PI.
- Sponsor: MacArthur foundation
Title: Neural Correlates of the Decision to Punish
Award Period: January 2009 – June 2010
Direct Costs: \$ 7,000, Indirect Costs: \$ 1,050
Role: Principal Investigator Owen Jones (Vanderbilt Law School), co-PI.
- Sponsor: Vanderbilt University central Discovery Grant Program
(Interdisciplinary Grant)
Title: Law and Brain Imaging
Award Period: January 2007 - July 2010
Direct Costs: \$ 98,500
Role: Principal Co-Investigator. Owen Jones (Vanderbilt Law School), co-PI.
- National Institute of Mental Health, \$1,590,650 (April 2004 – Feb 2010)
“Capacity Limits in Multi-Tasking” (MH70776)
- National Science Foundation, \$453,218 July 2001- June 2005, “Attentional Limits to Visual Perception” (NSF#0094992)
- National Institute of Health, \$1,051,900 July 2003- June 2007, “Attention and Neural Plasticity in Humans”
- Vanderbilt General Clinical Research Center. \$10, 000, PI, July 2002- June 2003. "An fMRI Investigation of Human Visual Attention"
- Nicholas Hobbs Foundation, \$10, 0000, July 2000 – June 2001, co-PI, "Functional MRI & behavioral study of interactions between perceptual expertise and attention"
- New Program Development, John F. Kennedy Center (P30 HD1505220), \$15, 000, July 2000 –June 2001, co-PI, “Functional MRI and Behavioral Studies of the Interactions Between Perceptual Expertise and Attention”

Articles in Refereed Journals

Han, SW, Eaton, HP, Marois R. (2018) Functional fractionation of the cingulo-opercular network: Alerting insula and updating cingulate. *Cerebral Cortex* <https://doi.org/10.1093/cercor/bhy130>

Fougnie DL, Cockhren J, Marois R (2018) A common source of attention for auditory and visual tracking. *Att. Percept. Psychophys.* <https://doi.org/10.3758/s13414-018-1524-9>

Ginther MR, Bonnie RJ, Hoffman MB, Shen FX, Simons KW, Jones OD, Marois R (2016) Parsing the Behavioral and Brain Mechanisms of Third-Party Punishment. *J Neurosci.* **36**:9420-34.

Tamber-Rosenau BJ, Marois R. (2016) Central attention is serial, but midlevel and peripheral attention are parallel - A hypothesis. *Atten Percept Psychophys.* **78**:1874-88.

Buckholtz, JW, Martin, JW, Treadway, MT, Jan, K, Zald, DH, Jones, OD, & Marois, R (2015) From blame to punishment: Disrupting prefrontal cortex activity reveals norm enforcement mechanisms. *Neuron*, **87**:1369-80

Tamber-Rosenau, BJ, Fintzi, A., & Marois, R. (2015) Crowding in visual working memory reveals its spatial resolution and the nature of its representations. *Psychological Science*, **26**:1511-21.

Godwin, D., Barry, R.L., & Marois, R. (2015) Breakdown of the brain's functional network modularity with awareness. *Proceedings of the National Academy of Sciences USA*, **112**:3799-804.

Fougnie, DL, Zughni, S., Godwin D, & Marois, R (2015) Working memory storage is intrinsically domain-specific. *Journal of Experimental Psychology: General.* **144**:30-47

Ginther, MR, Shen, FX, Bonnie, RJ, Hoffman, MB, Jones, OD, Marois, R & Simons, KW. (2014) *The Language of Mens Rea*, 67 VAND. L. REV. 1327.

Treadway MT, Buckholtz JW, Martin JW, Jan K, Asplund CL, Ginther MR, Jones OD, & Marois R. (2014) Corticolimbic Gating of Emotion-Driven Punishment. *Nat. Neurosci.* **17**:1270-5

Han SW, Marois R. (2014) The effects of stimulus-driven competition and task set on involuntary attention. *J. Vision* **14**:1-24.

Jones, O.D., Buckholtz, J.W., Schall, J.D., & Marois, R. (2014) Brain Imaging for Judges: An Introduction to Law and Neuroscience. *Court Review*, **50**:44-51.

Han SW, Marois R. (2014). Functional fractionation of the stimulus-driven

- attention network. *J. Neurosci.* **34**, 6958-6969.
- Asplund, CL, Fougny, DL, Zughni, S, Martin, J, & Marois, R (2014) The attentional blink reveals the probabilistic nature of discrete conscious perception. *Psychol. Sci.* 25: 824-831.
- Filmer, H, Mattingley J, Marois R, and Dux PE (2013) Disrupting prefrontal cortex prevents performance gains from sensory-motor training. *J Neurosci.* 33: 18654-60
- Jones, OJ, Marois, R., Farah, M, & Greely, H. (2013) Law and Neuroscience, *J Neurosci.* 33: 17624-30
- Tamber-Rosenau BJ, Dux PE, Tombu MN, Asplund CL, Marois R. (2013) Amodal processing in human prefrontal cortex. *J Neurosci.* 33:11573-87.
- Han SW, Marois R. (2013) The source of dual-task limitations: Serial or parallel processing of multiple response selections? *Atten Percept Psychophys.* 75: 1395-1405.
- Katwal, S.B., Gore, J.C., Marois, R, & Rogers, B.P. (2013) Unsupervised Spatiotemporal Analysis of fMRI Data Using Graph-based Visualizations of Self-organizing Maps. *IEEE Transactions on Biomedical Engineering (TBME).* 60: 2472-2483.
- Han, S.W., & Marois, R. (2012) Dissociation between process-based and data-based limitations for conscious perception in the human brain. *Neuroimage*, 64: 399-406.
- Buckholz, J.W., & Marois R. (2012). The roots of modern justice: cognitive and neural foundations of social norms and their enforcement. *Nature Neuroscience* 15: 655-61
- Tombu, M.N, Asplund, C.L., Dux, P.E., Godwin D, Martin J.W., & Marois, R. (2011). A unified attentional bottleneck in the human brain. *Proceedings of the National Academy of Sciences USA*, 108:13426-13431.
- Fougny, D.L., and Marois, R. (2011). What limits working memory capacity? Evidence for modality-specific sources to the simultaneous storage of visual and auditory arrays. *Journal of Experimental Psychology: Learning, Memory, and Cognition*, 37:1329-1341.
- Scalf, P., Dux, P.E., Marois, R. (2011). Working memory encoding delays top-down attention to visual cortex. *J. Cogn. Neurosci.* 23:2593-2604.

- Shen, Francis X., Hoffman, Morris B., Jones, Owen D., Greene, Joshua D. and Marois, Rene, *Flipping the Culpability Coin: Where the Model Penal Code Fails Defendants*. Forthcoming, New York University Law Review, Vol. 80 (2011) Available at: <http://ssrn.com/abstract=1746107>
- Todd, J.J., Han, S.W., Harrison, S., & Marois, R. (2011). The neural correlates of visual working memory encoding: A time-resolved fMRI study. *Neuropsychologia*, 49: 1527-1536.
- Fougnie, D.L., Asplund, C. L., & Marois, R. (2010). What are the units of storage in visual working memory? *Journal of Vision*, 10(12):27, 1–11, <http://www.journalofvision.org/content/10/12/27>, doi:10.1167/10.12.27
- Asplund, C. L., Todd, J. J., Snyder, A. P., Gilbert, C. M., & Marois, R. (2010). Surprise-Induced Blindness: A Stimulus-Driven Attentional Limit to Conscious Perception. *Journal of Experimental Psychology: Human Perception and Performance*. 36(6):1372-1381.
- Marois, R. (2010) Mind's eye wide shut. *Trends in Cognitive Sciences* 14:433-434.
- Robitaille, N., Marois, R., Todd, J., Grimault, S., Cheyne, D., Jolicoeur, P. (2010) Distinguishing between lateralized and non-lateralized brain activity associated with visual short-term memory: fMRI, MEG, and EEG evidence from the same observers. *Neuroimage* 53:1334-1345.
- Harrison, A., Jolicoeur, P., & Marois, R. (2010). 'What' and 'Where' in the Intraparietal Sulcus: An fMRI Study of Object Identity and Location in Visual Short-Term Memory. *Cerebral Cortex* 20:2478-2485.
- Asplund, C.L., Todd, J.J., Snyder, A.P., & Marois, R. (2010). A central role for the lateral prefrontal cortex in goal-directed and stimulus-driven attention. *Nature Neuroscience*, 13: 507-512.
- Fougnie, D.L., & Marois, R. (2009). Dual-task interference in visual working memory: A limitation in storage capacity but not in encoding or retrieval. *Attention, Perception & Psychophysics*. 71: 1831-1841.
- Dux, P.E., Tombu, M.N., Harrison, S., Rogers, B.P., Tong, F., & Marois, R. (2009). Training improves multitasking performance by increasing the speed of information processing in human prefrontal cortex. *Neuron*, 63: 127-138.
- Ivanoff, J.I., Branning, P., & Marois, R. (2009). Mapping the pathways of Information Processing from Sensation to Action in Four Distinct Sensorimotor tasks. *Human Brain Mapping*, 30:4167-4186.

- Dux, P.E., & Marois, R. (2009). How humans search for targets through time: A review of data and theory from the attentional blink. *Attention, Perception, & Psychophysics*, 71:1683-700.
- Dux, P. E., Asplund, C. L., & Marois, R. (2009). Both exogenous and endogenous target salience manipulations support resource depletion accounts of the attentional blink: A reply to Olivers, Spalek, Kawahara & Di Lollo. *Psychonomic Bulletin & Review*, 16, 219-224.
- Fougnie, D., & Marois, R. (2009). Attentive tracking disrupts feature binding in visual working memory. *Visual Cognition*, 17, 48-66.
- Dux, P. E., & Marois, R. (2008). Distractor inhibition predicts individual differences in the attentional blink. *PLoS ONE*, 3, e3330.
- Buckholz, J.W., Asplund, C.L., Dux, P., Zald, D.H., Gore, J.C., Jones, O.W., & Marois, R. (2008). The Neural Correlates of Third-Party Punishment. *Neuron*, 30, 930-940.
- Ivanoff J, Branning P, Marois R. (2008) fMRI evidence for a dual process account of the speed-accuracy tradeoff in decision-making. *PLoS ONE*. Jul 9; 3(7):e2635
- Dux, P. E., Asplund, C. L., & Marois, R. (2008). An attentional blink for sequentially presented targets: Evidence in favor of resource depletion accounts. *Psychonomic Bulletin & Review*, 15, 809-813.
- Dux P, Marois R. (2007). Repetition Blindness is Immune to the Central Bottleneck. *Psychonomic Bulletin Review* 14, 729-734.
- Fougnie DL, Marois R. (2007). Executive Load in Working Memory Induces Inattentive Blindness. *Psychonomic Bulletin Review* 14, 142-147.
- Dux P, Ivanoff, J., Asplund, C., & Marois R. (2006). Isolation of a central bottleneck of information processing with time-resolved fMRI. *Neuron*, 52: 1109-1120.
- Yi DJ , Kelley TA, Marois R, Chun MM. (2006). Attentional Modulation of Repetition Attenuation is Anatomically dissociable for scenes and faces. *Cognitive Brain Research*, 1080:53-62.
- Fougnie DL, Marois R. (2006). Distinct Capacity Limits for Attention and Working Memory. Evidence from Attentive Tracking and Visual Working Memory Paradigms. *Psychological Science*, 17:526-534.
- Marois, R, Larson, JM, Chun MM, & Shima, D. (2006). Response-specific sources of dual-task interference in human premotor cortex. *Psychological*

Research, 70:436-447.

Todd JJ, Fougny, DL, Marois R. (2005) Visual Short-Term Memory Load Suppresses Right Temporo-Parietal Junction Activity and Induces Inattentive Blindness. *Psychological Science*, 16:965-972.

Todd JJ, Marois R. (2005) Posterior Parietal Cortex Activity Predicts Individual Differences in Visual Short-Term Memory Capacity. *Cognitive, Affective & Behavioral Neuroscience*, 5:144-155.

Marois R, Ivanoff J. (2005) Capacity limits of Information processing in the brain. *Trends in Cognitive Sciences*, 9:296-304.

Yi DJ, Woodman GF, Widders D, Marois R, Chun MM (2004) The neural representation of ignored visual events: Dissociable effects of perceptual attention and working memory attention. *Nature Neuroscience* 7:992-996.

Todd JJ, Marois R. (2004) The Capacity Limit of Visual Short-Term Memory in Human Posterior Parietal Cortex. *Nature* 428:751-753.

Marois R, Yi DJ, Chun, MM (2004) The neural fate of perceived and missed events in the attentional blink. *Neuron*. 41:465-472.

Marois R, Chun MM, Gore JC (2004) A common parieto-frontal network is recruited under both low visibility and high perceptual interference. *Journal of Neurophysiology* 92:2985-2992.

Schultz RT, Grelotti D, Klin A, Kleinman J, Van der Gaag C, Marois R, and Skudlarski, P. (2003) The Role of the Fusiform Face Area in Social Cognition: Implications for the Pathobiology of Autism. *Philosophical Transactions of the Royal Society of London Series B: Biological Sciences*. 358:415-427.

Shafritz KM, Gore JC, Marois R (2002) The role of the parietal cortex in visual feature binding. *Proceedings National Academy Sciences USA* 99:10917-10922.

Palmeri, TJ, Blake, R, Marois, R, Flanery, M, Whetsell, W. (2002) The Perceptual Reality of Synesthetic Colors. *Proceedings National Academy Sciences USA* 99:4127-4131.

Anderson, A.W., Marois, R., Colson, E.R., Peterson, B.S., Duncan, C.C., Ehrenkranz, R.A., Schneider, K.C., Gore, J.C., & Ment, L.C. (2001). Neonatal Auditory Activation Detected by Functional Magnetic Resonance Imaging. *Magnetic Resonance Imaging* 19:1-5.

Marois R, Leung HC, Gore JC (2000) A stimulus-driven approach to object

- identity and location processing in the human brain. *Neuron* 25:717-728.
- Marois R, Chun MM, Gore JC (2000) Neural Correlates of the Attentional Blink. *Neuron*, 28: 299-308.
- Marois R, Carew TJ (1997) Fine structure of the apical ganglion and its serotonergic cells in the larva of *Aplysia californica*. *Biol Bull* 192:388-398.
- Marois R, Carew TJ (1997) Projection patterns and target tissues of the serotonergic cells in larval *Aplysia californica*. *J Comp Neurol* 386:491-506.
- Marois R, Carew TJ (1997) Ontogeny of serotonergic neurons in *Aplysia californica*. *J Comp Neurol* 386:477-490.
- Marois R, Croll RP (1992) Development of serotonin-like immunoreactivity in the embryonic nervous system of the snail *Lymnaea stagnalis*. *J Comp Neurol* 322:255-265.
- Marois R, Croll RP (1991) Hatching asynchrony within the egg mass of the pond snail, *Lymnaea stagnalis*. *Invert. Reprod. Dev.* 19:139-146.

Review Articles, Book Chapters

- Marois, R. (2015). The neural basis of visual working memory: An evolving story. In: *Mechanisms of Sensory Working Memory: Attention and Performance XXV*, Jolicoeur, P. and Martinez-Trujillo, J. (eds.). Academic Press: Elsevier, pp. 23-31.
- Tamber-Rosenau B.J., and Marois R. (2015) Attentional Capacity and Limitations. In: Arthur W. Toga, editor. *Brain Mapping: An Encyclopedic Reference*. Academic Press: Elsevier. pp. 281-288.
- Buckholz, J.W., Asplund, C.L., Dux, P., Zald, D.H., Gore, J.C., Jones, O.W., & Marois, R. (2011) The Neural Correlates of Third-Party Punishment. *Neuron*, 30, 930-940. *Law and Neuroscience, Current Legal Issues 2011, Vol. 13*, Freeman, M., Ed. Oxford University Press.
- Jones, O.D., Buckholz, J.W., Schall, J.D., Marois, R. (2009). Brain Imaging for Legal Thinkers: A guide for the Perplexed. 2009 STAN. TECH. L. REV. 5 (<http://stlr.stanford.edu/pdf/jones-brain-imaging.pdf>)
- Jolicoeur, P., Dell'Acqua, R., Brisson, B., Robitaille, N., Sauv e, K., Leblanc, E., Prime, D., Grimault, S., Marois, R., Sessa, P., Grova, C., Lina, J.-M., & Dubarry, A.-S. (2007). Visual spatial attention and visual short-term memory: Electro-magnetic explorations of the mind. In V. Coltheart (Ed.), *Tutorials in*

visual cognition. Hove (UK): Psychology Press.

Marois, R. (2005) Two-timing attention. *Nature Neuroscience* 8:1285-1286.

Marois, R. (2005) The Neural Basis of the Attentional Blink. In Neurobiology of Attention. (Itti L, Rees G, Tsotsos L, Eds.), pp. 383-388, Academic Press/Elsevier.

Marois, R. (2005) Capacity Limits of Information Processing in the Human Brain. *Phi Kappa Phi Forum*, 85:30-33.

Blake, R., Palmeri, T.J., Marois, R., Kim, C.-Y. (2005) On the Perceptual Reality of Synesthetic Color. In Attention on Synesthesia: Cognition, Development, and Neuroscience (L.Robertson & N. Sagiv, Eds.). pp. 47-73, Oxford University Press.

Marois R. (2002) The cortical basis of motor planning: Does it take two to tango? *Nature Neuroscience* 5:1254-1255.

Chun, M.M., Marois, R. (2002) The Dark Side of Attention. *Current Opinion in Neurobiology*. 12:184-189.

Stark, L.L., Marois, R., Emptage, N.J., Marcus, E.A. and T.J. Carew (1996). Central actions of serotonin across the lifespan of *Aplysia*: Implications for development and learning. In: Basic Neuroscience in Invertebrates, H.Koike, Y. Kidokoro, K. Takahashi and T. Kanaseki (eds), Japan Scientific Society Press, Tokyo.

Marcus, E.A., Emptage, N.J., Marois, R. and T.J. Carew (1994) A comparison of the mechanistic relationships between development and learning in *Aplysia*. *Progr. Brain Res.*, 100:179-188.

Marois, R. and I.A. Meinertzhagen (1990) The visual system of flies: analysis of the number, specificity, plasticity, and phylogeny of identified synapses. In: Systems Approaches to Developmental Neurobiology, P.A. Raymond, S.S. Easter and G.M. Innocenti (eds.), Plenum Press, New York.

Marois, R. and T.J. Carew (1990) The gastropod nervous system in metamorphosis. *J. Neurobiol.* **21**:1053-1071.

Conference Proceedings

Sun H, Sy J, Godwin D, Eaton H, Raghavan P, Marois R (2018) Convergent functional network connectivity changes in attention capture and awareness. Soc. Neurosci. Abstr.

- Eaton H, Sun H, Sy J, Godwin D, Raghavan P, Marois R (2018) Convergent network connectivity changes in stimulus-driven attention and awareness Cog. Neurosci. Soc. Ann. Meeting.
- Ginther MR, Bonnie RJ, Hoffman MB, Shen FX, Simons KW, Jones OD, & Marois R (2016) Parsing the neural components underlying third-party punishment decision-making. *Society for Social Neuroscience Annual Meeting*
- Hartsough L., Ginther M., & Marois R. (2016) Moral outrage mediates the interaction of harm and culpable intent in driving punishment decisions. Psychonomic Society Annual Meeting.
- Ginther MR, Bonnie RJ, Hoffman MB, Shen FX, Simons KW, Jones OD, & Marois R (2016) Parsing the neural components underlying third-party punishment decision-making. Social and Affective Neuroscience Society Annual Meeting.
- Godwin D, Barry RL & Marois R (2015) Increase in the brain's functional small-worldness with the capture of attention. Soc. Neurosci. Abstr.
- Godwin, D, Barry, R, & Marois, R. (2015) Breakdown of the Brain's functional network modularity with awareness. Association for the Scientific Study of Consciousness Annual Conference, Paris, France, July 2015
- Sy J, Marois R, & Tong F. (2015) Degraded precision of consciously perceived targets in the attentional blink. VSS annual abstracts, 2015
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Services

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- Chair, Department of Psychology, Vanderbilt University 2014-
- Member, Steering Committee, Vanderbilt Brain Institute 2012-
- Member, Education & Training Subcommittee, VBI 2012-
- Chair, tenure review committee, Psychology Dept 2012
- Member, reappointment review committee for Lecturer Sandberg 2011
- Director of Graduate Studies, Department of Psychology 2011-2014
- Member, Vanderbilt's Junior Advisory Review Committee (JARC) 2010-present
- Member, Faculty Reappointment committee, Psychology Dept 2009
- Chair, Socio-Affective faculty search committee, Psychology Dept 2007
- Dept Representative, Graduate Faculty Delegate Assembly 2006-2007
- Chair, EEG faculty search committee, Psychology Dept 2006
- Member, Future Direction Committee, Psychology Dept 2006

- Member, Self-study Committee, Interdepartmental Neuroscience Program 2004-2005
- Co-Director, Imaging Module, Vanderbilt Vision Research Training Grant 2003-present
- Member, 3T Scanner Advisory committee 2003-present
- Member, Colloquium Committee, Psychology Department 2001-2011
- Member, Graduate Committee, Department of Psychology 2000-present
- Member, Graduate Committee, Interdepartmental Neuroscience Program 2000-2008

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